

From: Separation Science <noreply@sepscience.com>
Sent: Tuesday, November 01, 2011 1:18 PM
To: Hanchett, James (DPH)
Subject: Read the Latest Application Notes from Knauer

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Below are a selection of application notes from Knauer. To request full PDFs for any or all of these click on the links below:

Determination of preservatives in foodstuffs and cosmetics



Preservatives in food and cosmetics are added to prevent any alteration or degradation caused by the microbial contamination 1, and to protect the health of consumers. The common preservatives that have been widely used in cosmetics and foodstuffs are parabens or esters of 4-hydroxybenzoic acid. The inspection of adherence to legal limits of preservatives in foodstuffs and cosmetics can be performed by HPLC. This method describes an analysis procedure of preservatives in food and cosmetics with reversed phase HPLC in the application range of 0.05 up to 0.2 %.

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High speed analysis of paracetamol and its process impurities

This application note describes a gradient method using a sub-2 µm column for the simultaneous determination of nine process-related impurities and one degradation product of paracetamol in less than 2 minutes.

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Rapid determination of DNPH derivatized carbonyl compounds

This application note describes a very fast method for identifying six DNPH derivatized carbonyls in a mixture using the KNAUER PLATINblue UHPLC system. The stationary phase BlueOrchid C18 A was used to separate the carbonyl mixture.

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Determination of BHT in rolling oil

A robust and sensitive HPLC method for the determination of butylated hydroxytoluene (BHT, 2,6-di-tert-butyl-4-methylphenol) also known as E321 in rolling oil is demonstrated. Furthermore the usage of small column dimensions and particle sizes results in significantly reduced consumption of mobile phase and accelerated analysis.

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Online UHPLC-MS determination of bio- and organic molecules

This application shows the power of UHPLC, coupled online to high performance time-of-flight mass spectrometry (TOF MS). The TOF MS is equipped with a liquid beam laser desorption source. Here we show the separation of nucleosides and bases in aqueous solution.

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